# Journal of Air Transportation World Wide

**Volume 3, Number 1 – 1998** 

ISSN Number: 1093-8826

Journal of Air Transportation World Wide Vol. 3, Number 1-1998 Brent D. Bowen, Editor

©1998, Aviation Institute, University of Nebraska at Omaha

#### Published by:

Aviation Institute University of Nebraska at Omaha 6001 Dodge Street Omaha, Nebraska 68182-0508 USA

Phone: (402) 554-3424 Fax: (402) 554-3781

E-mail] journal@fa-cpacs.unomaha.edu

World Wide Web] http://cid.unomaha.edu/~unoai/journal

Printed by: University of Nebraska-Lincoln Printing Services

Published as a not-for-profit service of the Aviation Institute. Funded in part by a grant from the NASA Space Grant College and Fellowship Program.



The University of Nebraska does not discriminate in its academic, employment or admission policies and abides by all federal, state and regental regulations pertaining to same.

## About the Journal of Air Transportation World Wide

The Journal of Air Transportation World Wide's (JATWW) mission is to provide the global community immediate key resource information in all areas of air transportation. Our goal is to be recognized as the preeminent scholarly journal in the aeronautical aspects of transportation. As an international and interdisciplinary journal, the JATWW will provide a forum for peer-reviewed articles in all areas of aviation and space transportation research, policy, theory, case study, practice, and issues. While maintaining a broad scope, a focal point of the journal will be in the area of aviation administration and policy.

#### **Development:**

The *JATWW* was conceptualized to fulfill an international void of scholarly publications in this area as identified by the primary organizers. It is envisioned that aviation leaders will utilize the *JATWW* as a key decision-making tool. Scholarly rigor and standard will be uncompromised with regular evaluation by the Editorial Board and Panel of Reviewers.

#### Scope:

The *JATWW* will accept manuscripts on all topics that relate to air transportation, both technical and non-technical. The Panel of Reviewers represent the interdisciplinary nature of air transportation to ensure review by recognized experts. Broad categories of appropriate topics include, but are not limited to:

Aviation Administration, Management, Economics, Education, Policy,

Engineering, Technology, and Science

Intermodal Transportation

Aerospace Education and Flight

Airports and Air Traffic Control

Air Transportation Systems: Domestic, International, Comparative

Aviation/Aerospace Psychology, Human Factors, Safety, and Human

Resources

Avionics, Computing, and Simulation

Space Transportation Safety, Communications, and the Future

Other areas of air and space transportation research, policy, theory, case study, practice, and issues

#### **Dissemination:**

The *JATWW* is catalogued at key research libraries world wide, including the U.S. Library of Congress. It is also indexed in Aviation Tradescan, the National Research Council TRIS Index, and ERIC Resources in Education. In addition, the *JATWW* is available through inter-library loan at the University of Nebraska at Omaha Library and the Riga Aviation University in Latvia via accessing the

About the Journal of Air Transportation World Wide

global OCLC inter-library loan network. A permanent archive is maintained at the University of Nebraska at Omaha. Annual subscriptions are available for \$35 for individuals and \$68 for institutions. For subscriptions outside the U.S. add \$20. Payments may be made by check or purchase order to the UNO Aviation Institute.

#### **Host Organization:**

University of Nebraska at Omaha (UNO) — Nancy Belck, Chancellor; Ernest Peck, Vice Chancellor for Academic Affairs

#### **Co-Sponsor Organizations:**

American Society for Public Administration — Van Johnston, Chair Transportation Section

Air Transport Research Group — Tae Oum, Chair

NASA Kansas Space Grant Consortium — David Downing, Director

NASA Nebraska Space Grant Consortium — Brent Bowen, Director

NASA Space Grant College and Fellowship Program, Aeronautics

Working Group — Julius Dasch, Program Manager Riga Aviation University, Latvia — Boris Heimanis, Rector

World Aerospace Education Organization — Kamal Naguib, Chairman

#### **Supporting Organizations:**

Aviation Institute, UNO — Brent Bowen, Director

Center for Public Affairs Research, UNO — Russell Smith, Director

College of Public Affairs and Community Service, UNO — David Hinton, Dean

Department of Public Administration, UNO — B.J. Reed, Chair

University Library, UNO — Robert Runyon, Director

#### JATWW Personnel:

Editor: Brent Bowen, Aviation Institute, UNO

Co-Editor: Igor Kabashkin, Riga Aviation University, Latvia

Assistant Editor: Fred Hansen, Aviation Institute, UNO

World Wide Web Coordinator: Scott Vlasek, Aviation Institute, UNO

System Supervisor: Tim Himberger, College of Public Affairs and

Community Service, UNO

Library Liaisons/Advisors: Carol Zoerb and Mel Bohn, University

Library, UNO

Publication Specialists: Joyce Carson, Layout and Melanie Hayes, Copy
 Editor, Center for Public Affairs Research, UNO; Marian Gramlich,
 Public Relations, UNO; Michaela Schaaf, Stylistic Reviewer, NASA
 Nebraska Space Grant Consortium, UNO; Amanda Talmadge, Marketing Consultant

#### Panel of Reviewers

Reviewers are appointed by the Editor to represent all elements of aviation and space transportation scholarship and practice. An appointment to the Panel of Reviewers recognizes professional and academic achievement. For membership consideration, submit a curriculum vita or statement of interest to: Dr. Brent Bowen, Editor.

#### **Members:**

Densel Acheson Alexander Kalmykov University of Nebraska at Omaha AMR SABRE

Fariba Alamdari John M.C. King Cranfield University, England Air New Zealand

Herbert Armstrong Kyung-Sup Lee
Dowling College Korean Air

Kenneth Barnard Jacqueline Luedtke Kansas State University Utah State University

Jon L. Bryan Rebecca Lutte

Bridgewater State College University of Nebraska at Omaha

Gail F. Butler Keith Mason
Dowling College St. Cloud State University
Gerald Chubb William C. McCurry

Gerald Chubb William C. McCurry
Ohio State University Arizona State University

James Crehan Pat McKinzie

University of Alaska Mankato State University

Sergey Doroshko A. Keith Mew

Riga Aviation University, Latvia California State University – Los Angeles

Alexander Fedotov Terry Michmerhuizen

Riga Aviation University, Latvia Parker Bertea Aerospace, Michigan

E. Terence Foster Boris Mishnev

University of Nebraska - Lincoln Riga Aviation University, Latvia

Terry Gibbs Gary Northam
University of Nebraska at Kearney Saint Louis University

Mavis Green Y.S. Park

University of Illinois, Savoy Korean Air
Scott Hall Manoj Patankar

Chicago Express Airlines San Jose State University

William C. Herrick Stephen Quilty

Middle Tennessee State University Bowling Green State University

Jeff Johnson Dawna Rhoades

University of Nebraska at Omaha Embry-Riddle Aeronautical University

#### Journal of Air Transportation World Wide Vol 3 No 1 1998 Page

#### Panel of Reviewers

Dutchie S. Riggsby Columbus College

Robert F. Ripley Auburn University

David Roy

Embry-Riddle Aeronautical University

Stephen M. Rutner Georgia Southern University

Vadim Stroitlev

Riga Aviation University, Latvia

Hope Thornburg St. Cloud State University

Mary Ann Turney Dowling College Victor Ujimoto

University of Guelph, Canada

Bijan Vasigh

Embry-Riddle Aeronautical University

 $Liz\ Ward$ 

NASA Langley Research Center

Thomas Weitzel

Trans World Airlines Inc.

Malcolm Yeo

Edith Cowan University, Australia

Jule Zumwalt

World Aerospace Education Organization

### **Table of Contents**

**Volume 3, Number 1 — 1998** 

The Proposed International Aeronautical Monetary Fund — Legal and Practical Implications · · · · · · · · · · · · · 1 Ruwantissa I.R. Abeyratne
Intermodal Airport-to-City-Center Passenger Transportation at the 20 Largest U.S. Air Carrier Airports: The Past,  Present, and Future
Human Factors: Tenerife Revisited
Aviation/Aerospace Teacher Education Workshops:  Program Development and Implementation · · · · · · · · · · · · · · · · · · ·
Special Section: Air Transport Research Group Conference, Vancouver, B.C. Guest Editor: Tae Oum
Air Transport Liberalization in Europe: The Progress So Far· · · · · 42  **Peter Morrell**
Towards an International Open Skies Regime: Advances, Impediments, and Impacts · · · · · · · · · · · · · · · · · · ·
Trends in Airline Labor Productivity and Cost in Europe · · · · · · · 71  Fariba Alamdari
Index of Past Issues· · · · · · · · · · · · · · · · · · ·
Guidelines for Manuscript Submission · · · · · · · · · · · · · · · · 91
$\textbf{Order Form} \cdot \cdot$

Journal of Air Transportation World Wide Vol 3 No 1 1998 Page